Attorney's Docket No.: 01948-0057002 Applicant: Li et al. BIDMC Reference No.: #404

Serial No.: 10/749,699

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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently amended) A therapeutic composition comprising a first agent that targets an interleukin-15 receptor (IL-15R), and a second agent that targets an interleukin-2 receptor (1L-2R), and rapamycin, wherein the first agent comprises a mutant IL-15 polypeptide that has a substitution of aspartate for glutamine at positions 149 and 156 of SEQ ID NO:4, the mutant 1L-15 polypeptide being optionally fused to the Fc region of an immunoglobulin, and the second agent comprises an IL-2 polypeptide that binds an IL-2R, wherein the IL-2 polypeptide is fused to the Fc region of an immunoglobulin.

2-34. (Canceled)

- 35. (Previously presented) The therapeutic composition of claim 1, wherein the mutant IL-15 polypeptide binds an IL-15Rα subunit of an IL-15R.
- 36. (Previously presented) The therapeutic composition of claim 1, wherein the immunoglobulin is an immunoglobulin of the G class (an IgG).

37-42. (Canceled)

43. (Previously presented) The therapeutic composition of claim 1, wherein the mutant IL-15 polypeptide is at least 95% identical to wild-type IL-15.

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44. (Previously presented) The therapeutic composition of claim 1, wherein the Fc region of an immunoglobulin, when present and fused to the mutant IL-15 polypeptide or the IL-2 polypeptide, is a target-cell depleting Fc region.

45. (Currently amended) A therapeutic composition comprising a first agent that targets an interleukin-15 receptor (IL-15R), and a second agent that targets an interleukin-2 receptor (IL-2R) and rapamycin, wherein the first agent consists of a mutant IL-15 polypeptide that is fused to the Fc region of an immunoglobulin, wherein the mutant IL-15 polypeptide has a substitution of aspartate for glutamine at positions 149 and 156 of SEQ ID NO:4, and the second agent consists of an IL-2 polypeptide that binds an IL-2R and is fused to the Fc region of an immunoglobulin.

46. (Canceled)

- 47. (Previously presented) The therapeutic composition of claim 45, wherein the mutant IL-15 polypeptide binds an IL-15Rα subunit of an IL-15R.
- 48. (Previously presented) The therapeutic composition of claim 45, wherein the immunoglobulin is an immunoglobulin of the G class (an IgG).

49. (Canceled)

- 50. (Previously presented) The therapeutic composition of claim 45, wherein the mutant IL-15 polypeptide is at least 95% identical to wild-type IL-15.
- 51. (Previously presented) The therapeutic composition of claim 45, wherein the Fc region fused to the mutant IL-15 polypeptide or the Fc region fused to the IL-2 polypeptide, is a target-cell depleting Fc region.